Reply to Office Action of May 31, 2007

Dated: July 31, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

WHAT IS CLAIMED IS:

1. (currently amended) A computer-based method for determining a value of a customized

indexed call option, comprising:

a) selecting a range from the group consisting of a range between a first lattice node with an

index value no greater than an index value for said customized indexed call option and a

second lattice node with an index value at least equal to said index value for said customized

indexed call option, and a range between a first epoch with a time no greater than a time to

expiry for said customized indexed call option and a second epoch with a time at least equal

to said time to expiry;

b) searching a lattice data structure based on said range from the group a search criterion to

determine at least one intermediate value of said customized indexed call option; and

[[b]]c) interpolating in said at least one intermediate value of said customized indexed call

option based on a set of predetermined parameters of the customized indexed call option to

find said value; and,

d) presenting an option for a holder of the customized indexed call option to switch between

said index and said constant growth rate at predefined intervals during a term for said

customized indexed call option, wherein said customized indexed call option comprises a

term and an index linkage to an index and a constant growth rate and wherein a holder of said

customized indexed call option has the ability to switch between said index and said constant

growth rate at predefined intervals during a term for said option.

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2. (original) A computer-based method for determining a value of a customized indexed call option as recited in claim 1 wherein said search criterion comprises a set of predetermined

parameters of the customized indexed call option.

3. (original) A computer-based method for determining a value of a customized indexed call

option as recited in claim 1 wherein said data structure is initialized based on a second

predetermined set of parameters.

4. (original) An article of manufacture comprising a customized indexed call option with a

specified term and specified notional amount n operatively arranged to allow an investor to

choose notional amounts n0 and n1 at specified intervals within the term such that n0 > 0,

 $n1 \ge 0$, and $n0+n1 \le n$, while guaranteeing nonnegative total credited interest over the term,

where interest credited on the notional amount $n\theta$ is based upon an arbitrary but specified

nonzero interest rate, and interest on the notional amount n1 is credited based on changes in a

specified index.

5. (original) An article of manufacture comprising a customized indexed call option with a

specified term and specified notional amount n operatively arranged to allow an investor to

choose notional amounts n_i at specified intervals within the term such that i is an integer such

that $0 \le i \le k$, $n_i \ge 0$, and $\sum n_i \le n$, while guaranteeing nonnegative total credited interest over the

term, where interest credited on the notional amount n_0 is based upon an arbitrary but specified

nonzero interest rate, and interest on the notional amount n_i , $i \ge 1$, is credited based on changes in

specified index i, where k, the number of specified indices, is an integer greater than or equal to

one.

6. (currently amended) A computer-based method for determining a value of a customized

indexed annuity with guaranteed return amount G, comprising:

a) determining a value of a customized indexed call option; and

b) determining a present value of the guaranteed return amount G; and,

c) presenting an option for a holder of the customized indexed call option to switch between

said index and said constant growth rate at predefined intervals during a term for said

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customized indexed call option, wherein said customized indexed call option comprises a term and an index linkage to an index and a constant growth rate and wherein a holder of said customized indexed call option has the ability to switch between said index and said constant growth rate at predefined intervals during a term for said option.

- 7. (currently amended) A computer-based method for determining a value of a customized indexed certificate of deposit with guaranteed return amount G, comprising:
 - a) determining a value of a customized indexed call option; and
 - b) determining a present value of the guaranteed return amount G; and,
 - c) presenting an option for a holder of the customized indexed call option to switch between said index and said constant growth rate at predefined intervals during a term for said customized indexed call option, wherein said customized indexed call option comprises a term and an index linkage to an index and a constant growth rate and wherein a holder of said customized indexed call option has the ability to switch between said index and said constant growth rate at predefined intervals during a term for said option.
- 8. (currently amended) A computer-based method for determining a value of a customized indexed life insurance policy with guaranteed return amount G, comprising:
 - a) determining a value of a customized indexed call option; and
 - b) determining a present value of the guaranteed return amount G; and,
 - c) presenting an option for a holder of the customized indexed call option to switch between said index and said constant growth rate at predefined intervals during a term for said customized indexed call option, wherein said customized indexed call option comprises a term and an index linkage to an index and a constant growth rate and wherein a holder of said customized indexed call option has the ability to switch between said index and said constant growth rate at predefined intervals during a term for said option.
- 9. (currently amended) A computer-based method for determining a value of a customized indexed bond with guaranteed return amount G, comprising:
 - a) determining a value of a customized indexed call option; and
 - b) determining a present value of the guaranteed return amount G; and,

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c) presenting an option for a holder of the customized indexed call option to switch between said index and said constant growth rate at predefined intervals during a term for said customized indexed call option, wherein said customized indexed call option comprises a term and an index linkage to an index and a constant growth rate and wherein a holder of said eustomized indexed call option has the ability to switch between said index and said constant growth rate at predefined intervals during a term for said option.

- 10. (currently amended) A computer-based method for determining a value of a customized indexed call option, comprising:
 - a) generating a first sample of index paths based on a first set of predetermined parameters;
 - b) determining an optimal choice boundary maximizing an intermediate value of said customized indexed call option for such first sample of index paths; and
 - c) determining said value of said customized indexed call option from said determined optimal choice boundary and a second sample of index paths and a second set of predetermined parameters; and,
 - d) presenting an option for a holder of the customized indexed call option to switch between said index and said constant growth rate at predefined intervals during a term for said customized indexed call option, wherein said customized indexed call option comprises a term and an index linkage to an index and a constant growth rate and wherein a holder of said customized indexed call option has the ability to switch between said index and said constant growth rate at predefined intervals during a term for said option.
- 11. (original) A computer-based method for determining a value of a customized indexed call option as recited in claim 10 wherein said samples of index paths are randomly generated from distributions specified by the first set of predetermined parameters.
- 12. (original) A computer-based method for determining a value of a customized indexed call option as recited in claim 10 wherein said samples of index paths are quasi-randomly generated from distributions specified by the first set of predetermined parameters.

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13. (original) A computer-based method for determining a value of a customized indexed call

option as recited in claim 10 wherein said first sample of index paths and said second sample of

index paths are identical.

14. (original) A computer-based method for determining a value of a customized indexed call

option as recited in claim 10 wherein said first sample of index paths and said second sample of

index paths differ.

15. (original) A computer-based method for determining a value of a customized indexed call

option as recited in claim 10 wherein said samples of index paths are generated for one index.

16. (original) A computer-based method for determining a value of a customized indexed call

option as recited in claim 10 wherein said samples of index paths are generated for multiple

indices.

17. (currently amended) An apparatus for determining a value of a customized indexed call

option, comprising:

a) means for selecting a range from the group consisting of a range between a first lattice

node with an index value no greater than an index value for said customized indexed call

option and a second lattice node with an index value at least equal to said index value for said

customized indexed call option, and a range between a first epoch with a time no greater than

a time to expiry for said customized indexed call option and a second epoch with a time at

least equal to said time to expiry;

b) means for searching a lattice data structure based on said range from the group a search

eriterion to determine at least one intermediate value of said customized indexed call option;

and

[[b]]c) means for interpolating in said at least one intermediate value of said customized

indexed call option based on a set of predetermined parameters of the customized indexed

call option to find said value; and,

d) means for presenting an option for a holder of the customized indexed call option to

switch between said index and said constant growth rate at predefined intervals during a term

for said customized indexed call option, wherein said customized indexed call option

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comprises a term and an index linkage to an index and a constant growth rate and wherein a holder of said customized indexed call option has the ability to switch between said index and said constant growth rate at predefined intervals during a term for said option.

- 18. (original) The apparatus recited in Claim 17 wherein said means for searching a data structure comprises a general purpose computer specially programmed to search said data structure based on said search criterion to determine at least one intermediate value of said customized indexed call option.
- 19. (original) The apparatus recited in Claim 17 wherein said means for interpolating in said at least one intermediate value of said customized indexed call option comprises a general purpose computer specially programmed to perform said interpolation.
- 20. (currently amended) An apparatus for determining a value of a customized indexed call option, comprising:
 - a) means for generating a first sample of index paths based on a first set of predetermined parameters;
 - b) means for determining an optimal choice boundary maximizing an intermediate value of said customized indexed call option for such first sample of index paths; and
 - c) means for determining said value of said customized indexed call option from said determined optimal choice boundary and a second sample of index paths and a second set of predetermined parameters; and,
 - d) means for presenting an option for a holder of the customized indexed call option to switch between said index and said constant growth rate at predefined intervals during a term for said customized indexed call option, wherein said customized indexed call option comprises a term and an index linkage to an index and a constant growth rate and wherein a holder of said customized indexed call option has the ability to switch between said index and said constant growth rate at predefined intervals during a term for said option.
- 21. (original) The apparatus recited in Claim 20 wherein said means for generating a first sample of index paths based on a first set of predetermined parameters comprises a general purpose computer specially programmed to generate said first sample of index paths.

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22. (original) The apparatus recited in Claim 20 wherein said means for determining an optimal

choice boundary maximizing an intermediate value of said customized indexed call option for

such first sample of index paths comprises a specially programmed general purpose computer.

23. (original) The apparatus recited in Claim 20 wherein said means for determining said value

of said customized indexed call option from said determined optimal choice boundary and a

second sample of index paths and a second set of predetermined parameters comprises a

specially programmed general purpose computer.